

## II. Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

### A. Listing of Claims

1. (Currently Amended) A ~~receiver~~ device for channel set-up comprising:

a receiver which ~~receives~~ performs a first scan to receive a broadcast signal;

a detector which tunes a channel that is receivable by the receiver and judges whether a broadcast signal is included in the channel or not;

a memory which stores information of existence of a broadcast signal in the tuned channel based on the judgment by the detector; and

a channel setupper which carries out channel setup operation in which the detector ~~[[scans]]~~ performs a second scan of a plurality of channels in the broadcast frequency band, and the detector and the memory are controlled to thereby store existence information of a plurality of channel broadcast signals in the broadcast frequency band in the memory;

wherein the channel setupper skips channels having broadcast signals the existence of which is stored in the memory during scanning in the channel setup operation.

2. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, comprising a channel ~~up-down~~ up/down tuner which tunes selectively channels having broadcast signals the existence of which is stored in the memory when the channel is ~~up-down~~ tuned up/down ~~successively~~ sequentially.

3. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, wherein existence of a broadcast signal is judged based on detection of a horizontal sync signal included in an image signal if the broadcast signal is an analogue broadcast signal.

4. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, wherein existence of a broadcast signal is judged based on acquisition of program information data included in the digital broadcast signal if the broadcast signal is a digital broadcast signal.

5. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, wherein the channel setupper stores the number of channel setup operation.

6. (Currently Amended) The ~~receiver~~ device as claimed in claim 5, wherein the channel setupper carries out automatically channel setup operation periodically with a predetermined cycle time if the stored number of channel setup operation is 1 or larger.

7. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, wherein the memory stores a channel map that specifies the number of physical channels and logical channels in which a broadcast signal exists if the broadcast signal is [[the]] a digital broadcast signal.

8. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, comprising a standby system that brings the receiver [[in]] into a standby state for energy saving when a power source is turned off, and wherein the channel setup operation is carried out during the standby state.

9. (Currently Amended) The ~~receiver~~ device as claimed in claim 5, comprising an initializer to initialize the number of channel setup operation stored in the memory.

10. (Currently Amended) The ~~receiver~~ device as claimed in claim 5, wherein the detector judges with variable ~~accuracy~~ timeout time based on the number of channel setup operation.

11. (Currently Amended) The ~~receiver~~ device as claimed in claim 10, wherein the variable ~~accuracy~~ timeout time of the detector varies depending on the time that is required to detect a horizontal sync signal included in an image signal for the analogue broadcast.

12. (Currently Amended) The ~~receiver~~ device as claimed in claim 10, wherein the variable ~~accuracy~~ timeout time of the detector varies depending on the time that is required to analyze broadcast program information data for the digital broadcast.

13. (Currently Amended) The ~~receiver~~ device as claimed in claim 1, comprising a current registered channel detector which judges whether a broadcast signal is included or not in channels having broadcast signals the existence of which is stored in the memory, and wherein when the current registered channel detector judges that the broadcast signal is not included in the channels, the existence information of the broadcast signal in the channels stored in the memory is varied.

14. (Currently Amended) The ~~receiver~~ device as claimed in claim 13, wherein the current registered channel detector judges that a broadcast signal does not exist in the channels if the broadcast signal is not received repeatedly a plurality of times.

15. (Currently Amended) The receiver device as claimed in claim 7, comprising: an OSD generator which synthesizes the channel map information stored in the memory into a display signal; and a display which displays the display signal synthesized by the OSD generator.

16. (Currently Amended) A channel setup method for setting up channels to be tuned in channel ~~up-down~~ up/down tuning comprising:

~~a step of~~ receiving a broadcast signal;

~~a first channel setup step in which~~ scanning a plurality of channels ~~are scanned~~ continuously sequentially, and storing the information of the channel ~~is stored~~ if the scanned channels include a broadcast signal; and

~~a second channel setup step in which~~ scanning a plurality of channels ~~are scanned~~ with skipping those channels previously stored based on the fact that the channels include the broadcast signal ~~in the first channel setup step~~, and storing the information of the channel ~~is stored~~ if the scanned channels include a broadcast signal.

17. (Currently Amended) A channel setup method as claimed in claim 16, wherein the channels scanned ~~in the first channel setup step~~ sequentially cover all the channels having frequencies included in the broadcast frequency band.

18. (Currently Amended) A channel setup method as claimed in claim 16, further comprising:

~~a channel map forming step of~~ forming a channel map that indicates existence of the broadcast signal of the plural channels based on the information stored ~~in the first and second channel setup steps~~, and

~~a display step of~~ displaying the channel map ~~formed in the channel map forming step~~.